ADDENDUM

TO THE

QUALITY CONTROL PROGRAM PLAN

FOR THE
INTERIM REMEDIATION FOR THE
SERPENTINE POND (PSC 42)
IN-SITU SLUDGE/SOIL STABILIZATION
NAS JACKSONVILLE, FLORIDA

Prepared for

DEPARTMENT OF THE NAVY
SOUTHERN DIVISION
NAVAL FACILITIES ENGINEERING COMMAND

Under Contract No. N62467-93-D-0936

Prepared by

BECHTEL ENVIRONMENTAL, INC.
OAK RIDGE, TENNESSEE

AUGUST 1995

REVISION 0

Bechtel Job No. 22567

Approved: FOR [illegible] FOR V.H. [illegible]
Project Manager
24 August 95
Date

Approved: [illegible]
Quality Control Manager
22 Aug 95
Date

Approved: [illegible]
Navy Contracting Officer
1 Mar 96
Date

TABLE OF CONTENTS

ATTACHMENTS

INTRODUCTION

The purpose of this Quality Control Plan Addendum (QCPA) is to define those activities necessary to provide adequate confidence that the remedial action for interim remediation of the Serpentine Pond (wastewater effluent polishing pond - PSC 42) in-situ sludge/soil stabilization at Naval Air Station (NAS) Jacksonville, Florida site have been satisfied.

SCOPE OF WORK

This QCPA addresses the site-specific QC requirements for this Task and is intended to be used to provide additional information to the program requirements presented in the Quality Control Plan (QCP). Both the QCP and the QCPA will be used to direct QC activities for this Task.

The objective at PSC 42, NAS Jacksonville is the interim remedial action activities associated with the in-situ stabilization of contaminated soils and sludges. Activities include in-situ stabilization of the sludge and standing water in the polishing pond. Additionally, 18 inches of soil below the sludge and along the sides of the berms will be stabilized. The estimated volume of surface water and sludge included in this action are 4 million gallons of water and 8,000 cubic yards of sludge and 9,500 cubic yards of native soils. Work will also include mobilization of temporary facilities and a batch mixing plant, clearing and grubbing, monitoring well abandonment, abandonment of the overflow structure, and construction of a containment dike

Bechtel

Quarters E, G Avenue
P. O. Box 171
Jacksonville, Florida 32215

Facsimile: (904) 779-8999

SECTION I - APPOINTMENT LETTER

August 22, 1995

Mr. Donald Xiques
Bechtel Environmental, Inc.
151 Lafayette Drive
Oak Ridge, Tennessee 37830

Dear Mr. Xiques:

Pursuant to Section 6.7.1(b) of the Quality Control Requirements contained within the Naval Facilities Engineering Command, Southern Division, Contract No. N62467-93-D-0936, please be advised that you have been appointed as Quality Control Manager for the environmental remedial action project for Delivery Order No. 024 at PSC 42 at Naval Air Station Jacksonville, Florida. You have full responsibility and authority for implementation of the quality control program, including stop work authority in accordance with the Quality Control Program Plan.

Since the Quality Assurance Department maintains a reporting relationship independent of that for project personnel, you will report directly to me and coordinate project activities with the Project Manager.

Should you have any questions, please feel free to contact me.

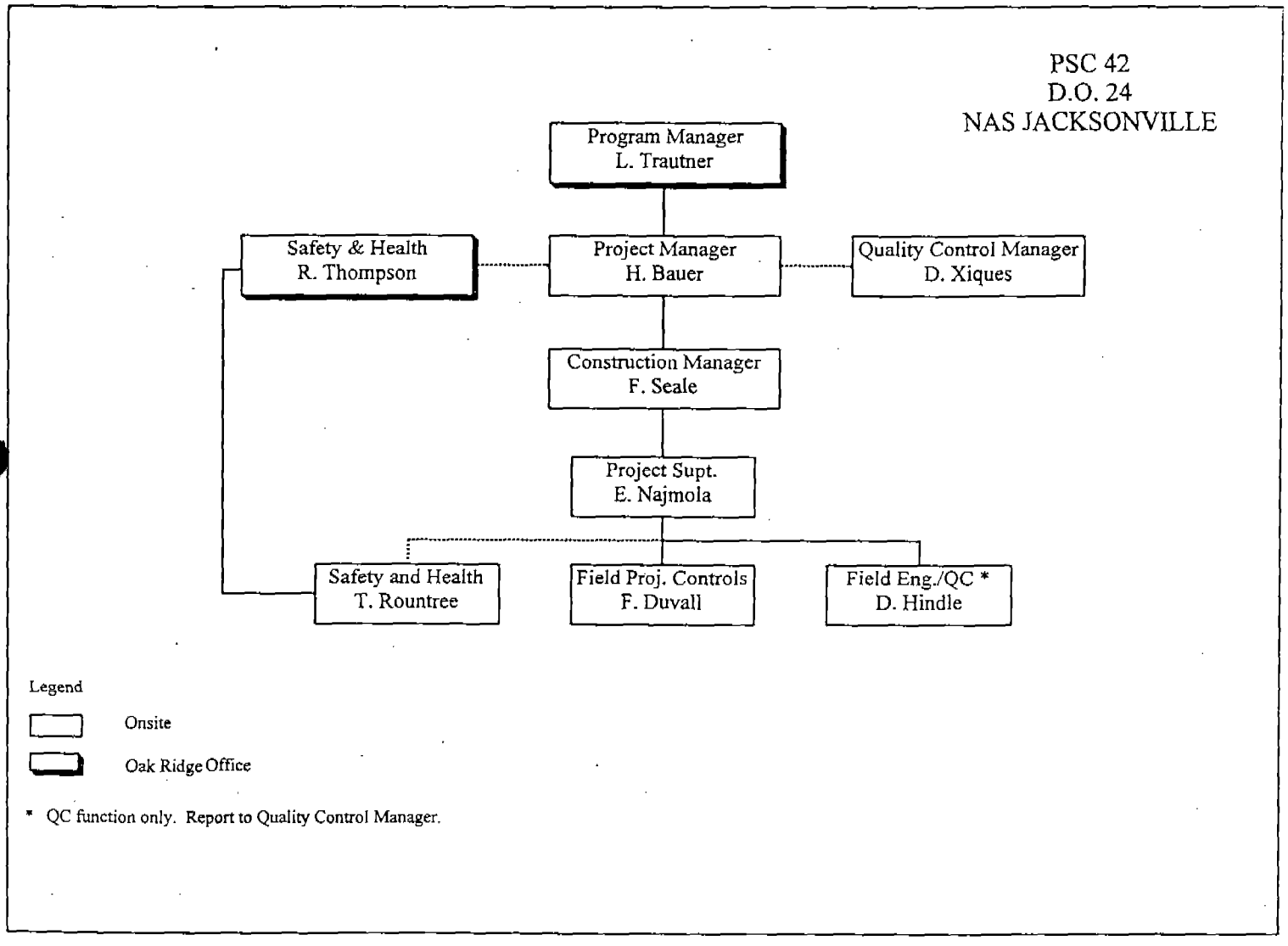
Sincerely,

for Bret Peacock
BEI Manager of Quality Control

BP/pw

SECTION II - QC ORGANIZATIONAL CHART

Figure 2-1
Project Organization



SECTION III - NAMES AND QUALIFICATIONS

Professional Resume

Name: Donald R. Xiques **Job Title:** Senior QA Engineer

Proposed Project Title: QC Manager

Years' Experience with Proposing Firm: 5

Years' Experience with Other Firm: 2

Education (Degrees, year, specialization): BA, 1985, Chemistry,
Maryville College, Maryville, Tennessee

Active Registration:

Certified ASME NQA-1 Lead Auditor, 1994

Health and Safety Training:

40-Hr OSHA Training

Experience and Qualifications:

Donald Xiques has over seven years experience in environmental analytical testing and environmental remediation projects. He is currently in Quality Assurance and is an ASME NQA-1 certified Lead Auditor. He has developed, written, implemented, and administered plans and reports associated with remedial action projects. Mr. Xiques' environmental restoration project experience encompasses all phases, from RI/FS through remedial design and remedial action, including subcontract administration.

Mr. Xiques is currently a Senior Quality Assurance Engineer for BEI. He performs office and field audits or surveillances of BEI projects, vendors, and subcontractors. He also reviews procedures, plans, contracts, and other project guidance for administrative and technical compliance. He reviews federal laws, state and local standards, statutes and regulations for applicability to assigned project. He coordinates corrective action processes related to Quality Assurance matters.

As a Senior Quality Assurance Engineer for the Bechtel National, Inc. (BNI), Oak Ridge National Laboratories Remedial Investigation/Feasibility Study, Mr. Xiques was responsible for the implementation and verification of Bechtel's Quality Assurance/Quality Control Program. He also provided field Quality Control and technical quality assessment for the ORNL RI/FS being conducted for Martin Marietta Energy Systems.

As the Quality Control Systems Manager for the Lapari Landfill Site, Mr. Xiques was responsible for the administration, coordination, and oversight of the implementation of QA/QC aspects of the Chemical Quality Management and Sampling Plan. Duties included review of all QA/QC data and reports from site and subcontract laboratories; preparation of QA/QC submittals; performing routine internal audits and inspections of on-site and subcontract laboratories, treatment system operations and QA/QC records; review nonconformance reports related to laboratory equipment, data, sampling or analytical procedures; and periodic monitoring of sampling and analyses activities.

While working as QA Engineer for the Department of Energy's Formerly Utilized Sites Remedial Action Plan (FUSRAP),and its characterization and remedial action activities associated with 14 sites located in 7 states, Mr. Xiques conducted Quality Assurance audits, and surveillance to assess technical and programmatic procedures relating to planning and implementation of Remedial Investigations/Feasibility Studies Plans, Project Instruction Guides, Environmental Monitoring Plans, QA Plans, Corrective Action Requests, Project Procedures, RD/RA Plans. Mr. Xiques also provided assessment of technical adequacy of chemical, laboratory and data issues. He provided procedural oversight on routine and special event engineering and technology, operations, construction, environmental monitoring and procurement activities. He performed office and field audits of the project and its subcontractors.

Mr. Xiques developed the Project Procedures Manual, BEI Quality Assurance Program Plan, Standard Operating Procedures, and numerous Quality Assurance Project Plans as the QA Engineer for BEI's EPA Region IV Alternative Remediation Contracting Strategies Projects. He conducted and directed audit and surveillance coverage for office and field operations. He participated in field sampling, field laboratory and field operations. Mr. Xiques also provided technical guidance on analytical issues, and assisted in the development of Work Plans (WPs) and Field Sampling Plans (FSPs). He conducted audits of office and field activities.

As the QA Engineer for Special Environmental Projects, Mr. Xiques directed Quality Assurance/Quality Control activities for commercial projects. Activities included the responsibility for quality documentation and submittals; development of audit and surveillance schedules; and implementation of BEI's Quality program. Mr. Xiques developed and implemented Quality Assurance Program Plans and Quality Assurance Project plans for remedial investigations/feasibility studies, treatability studies, and remedial design/remedial actions projects for commercial clients. He provided audit and surveillance coverage for office and field operations. He participated in field laboratory and documentation activities. He has performed field activities including directing drilling activities, acquiring field measurements and collecting analytical samples.

At International Technology in Oak Ridge, TN, Mr. Xiques conducted Gas Chromatography/Mass Spectroscopy as Chemist I. As an analytical chemist he was EPA CLP qualified to conduct quantitative and qualitative analysis of hazardous and mixed-wastes (hazardous-radioactive) for volatile and semi-volatile organic compounds using gas chromatography/mass spectroscopy. His responsibilities included sample management, sample preparation and analysis, procedure development, data package development and validation.

List of Publications:

Use of Field Analytical Data to Guide
A Remedial Investigation of PCB Contaminated Sediments - USEPA Superfund Conference XIV 1993.

Quantitative Evaluation of Sampling Results for Site Environmental Reports - DOE Oak Ridge Model Conference on Waste Management & Environmental Restoration - 1992.

Functional Evaluation of QC Samples, A Proactive Approach - USEPA Seventh Annual Waste Testing and Quality Assurance Symposium -1991.

Professional Data:

United States Navy

Rank: Lieutenant (O-3) 1635 Naval Intelligence Officer USNR-R, Attached to Commander, Amphibious Group 2, Detachment 0867, Naval Air Station Atlanta, Marietta, GA.
Source of Commission: Aviation Officers Candidate School, Naval Air Station Pensacola, Florida.
Attached to the Naval Air Training Unit Flying Training Squadron 457, Mather AFB, Sacramento, California and Fixed Wing Training Squadron 10, Naval Air Station Pensacola Florida.

SECTION IV - DUTIES, RESPONSIBILITIES, AND AUTHORITIES OF QC PERSONNEL

The duties, responsibilities, and authorities of the assigned QA personnel for tasks associated with this DO are described in detail in Section IV of the Quality Control Plan (QCP)

SECTION V - OUTSIDE ORGANIZATIONS

Outside organizations may be employed by Bechtel, as required by the BEI Interim Remediation Work Plan, to provide specific services. These outside organizations for this DO may include but are not limited to:

- Analytical testing
- Physical properties testing
- Batch plant
- Well installation
- Hazardous waste disposal

SECTION VI - SUBMITTALS

Submittals and reporting requirements for this DO's tasks are specified in Section VI of the QCP. The QC Manager is responsible for the completion and submission of all required QC submittals as specified in the QCP.

SECTION VII - INSPECTION SYSTEM

Inspections will be conducted per Section VII of the QCP. Inspections to be conducted for tasks associated with this DO are listed in the Inspection Schedule Log (Attachment 1) and the Field Inspection Report (Attachment 2). Dates for QC inspections will be provided at the preconstruction meeting.

SECTION VIII - TESTING

Additional requirements associated with testing, such as calibration, audits, subcontractor submittals, and data review are addressed in the QCP.

The following test will be conducted:

- Strength of Concrete - in accordance with ASTM-C33.
- Permeability - in accordance with ASTM D 5084-90 and/or COE EM-1110-2-1906
- Compaction - in accordance with ASTM D 1556 and ASTM D 1557
- Strength - in accordance with ASTM D 2166
- Leachability - in accordance with the EPA toxicity characteristic leaching procedure (TCLP)

SECTION IX - REWORK PROCEDURES

Rework procedures and associated requirements are addressed in Section IX of the QCP.

SECTION X - DOCUMENTATION

Refer to Section X of the QCP for QC documentation requirements for tasks associated with this DO.

SECTION XI - CERTIFICATIONS

Certification requirements are addressed in Section XI of the QCP.

SECTION XII - PROGRESS SCHEDULE

Scheduling will be performed by BEI and is included in the BEI Interim Remediation Action Work Plan for this DO

By ____
Sheet 1 of 1

INSPECTION SCHEDULE LOG

DO Reference	Item	Inspection Phase & Schedule									Remarks
		Preparatory			Initial			Follow-up			
		Sched	Actual	By	Sched	Actual	By	Sched	Actual	By	
	Preparatory Phase Completion										
	Water - Sampling										
	Soil - Sampling										
	Chain of Custody										
	Waste Management										
	Equipment Decontamination Area										
	Field Measurements										
	Sample Preservation & Container										
	Sample Containers and Sampling										
	Packaging Samples for Transportation										
	Logbook Protocols										
	QC Sample Verification										
	Strength of Concrete										

ATTACHMENT 1

FIELD INSPECTION REPORT

Location/Description: _____

_____

Item & Spec Nos.	Accept	Reject	Date	Remarks
PREPARATORY				
100 Sample Preservation & Container Material				
105 Sample Containers and Sampling Devices				
005 Preparatory Phase Completion				
INITIAL				
160 Water Sampling				
015 Soil - Sampling				
025 Chain-of-Custody				
050 Equipment Decontamination Area				
055 Field Measurements				
140 Packaging Samples for Transportation				
150 Logbook Protocols				
160 Strength of Concrete				
FOLLOW-UP				
045 Waste Management				
COMPLETION				

By: _____ Date: _____

QC Manager/QC Field Engineer

ATTACHMENT 2